

19990626.qrp v01_n500.qrl.990626

Date: Sat, 26 Jun 1999 19:03:22 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1500

QRP-L Digest 1500

Topics covered in this issue include:

- 1) [43545] 2N2/40 Projects
by Bob Hightower <ki7mn@extremezone.com>
- 2) [43546] VE3DNL Crystal Controlled Calibrator
by Ted Kell <tedkell@juno.com>
- 3) [43547] FD fun!
by tom whalen <wb5qyt@eFortress.com>
- 4) [43548] Field Day QRP Exchange
by Don Lefrancois <wb1cdh@cwix.com>
- 5) [43549] RS-12/13 & Field Day
by jaywa5whn@juno.com
- 6) [43550] Small Wonder Labs takes a break
by Bensondj@aol.com
- 7) [43551] Sucrets box rig
by sigcom@juno.com
- 8) [43552] Re: Re Milliwatt on CD
by "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>
- 9) [43553] Nortex Field Day
by NM5Mike@aol.com
- 10) [43554] SST Front Panel Design
by "Frank Matthews" <fmathews@pilot.infi.net>
- 11) [43555] Fractal antennas?
by Kirk Job Sluder <csluder@indiana.edu>
- 12) [43556] Hey, pictures are ready
by "Chuck Adams K5F0" <adams@ticnet.com>
- 13) [43557] DSW40 on the air in Cajunland
by James R Giammanco <n5ib@juno.com>
- 14) [43558] Building experiences, part III, verse 9 . . .
by Nils R Young <nilsbull@juno.com>
- 15) [43559] Red Hot NC-20 U3?
by "Jack Oakland, CA" <w6abc@yahoo.com>
- 16) [43560] Did anyone ever use this for a ground ???
by WB9MII@aol.com
- 17) [43561] RE: DSW40 on the air in Cajunland
by "Ed Tanton" <n4xy@att.net>
- 18) [43562] Did anyone ever use this for a ground ???
by John Fletcher <johnf@innotts.co.uk>
- 19) [43563] Re: Field Day QRP Exchange

- by Bob Patten <n4bp@bc.seflin.org>
- 20) [43564] Century 21
by K4NK@aol.com
- 21) [43565] digital vfos
by "Jerry W. O'Dell" <jwodel@ameritech.net>
- 22) [43566] Solar conditions
by "Rich Dailey, KA8OKH" <ka8okh@som-uky.campuscw.net>
- 23) [43567] Re: Fractal antennas?
by "Steve Yates, AA5TB" <aa5tb@swbell.net>
- 24) [43568] Re: Solar conditions
by Bob Patten <n4bp@bc.seflin.org>
- 25) [43569] Re: Fractal antennas?
by Steven Mann <smann@advi.net>
- 26) [43570] Are you a Sharpie (Was Re: W1RFI)
by "Randy Jouett" <rules@bellsouth.net>
- 27) [43571] Re: Fractal antennas?
by "Randy Jouett" <rules@bellsouth.net>
- 28) [43572] Power line grounds
by Bruce Muscolino <w6toy@erols.com>
- 29) [43573] Solar condx - oh well...
by "Rich Dailey, KA8OKH" <ka8okh@som-uky.campuscw.net>
- 30) [43574] Re: Fractal antennas?
by "John J. McDonough" <jjmcd@tm.net>
- 31) [43575] Re: Did anyone ever use this for a ground ???
by David Hinerman <wd8civ@worldnet.att.net>
- 32) [43576] Re: Did anyone ever use this for a ground ???
by kew@teleport.com (Keith)
- 33) [43577] Re: Kite Plans at Atlanticon?
by "Jim Stafford, W4Q0" <w4qo@amsat.org>
- 34) [43578] E-MAIL address for QRP-L activities???
by hapence@erols.com
- 35) [43579] Re: Power line grounds
by "Chuck Carpenter" <w5usj@globeco.net>
- 36) [43580] 80 meter CW Net
by "Bill Todd" <bill@willapabay.org>
- 37) [43581] Re: Fractal antennas?
by Chris Trask <ctrask@primenet.com>
- 38) [43582] Solar Flux and Planetary A Index
by "Chuck Adams K5F0" <adams@ticnet.com>
- 39) [43583] Results of Recommendation for Rig (long)
by Fred J Kalt <w2xn@juno.com>
- 40) [43584] Re: digital vfos
by "Steven Weber" <kd1jv@moose.ncia.net>
- 41) [43585] Sorry: Was: Re: Fractal antennas?
by "John J. McDonough" <jjmcd@tm.net>
- 42) [43586] 2N2/40 T-shirts
by Bob Hightower <ki7mn@extremezone.com>
- 43) [43587] FS OHR-400

by "William Penhallegon" <w4stx@gte.net>
44) [43588] HW-8 lights
by Mike Czuhajewski <wa8mcq@erols.com>
45) [43589] WELLER IRON
by "George Goodroe" <goodroe@worldnet.att.net>
46) [43590] Summer SPRAT
by "Graham Firth" <Graham.Firth@BTinternet.com>
47) [43591] kit comparisons article?
by Rod Davis <rdavis@abac.com>
48) [43592] Field Day Exchange
by randy cornelison <randyc@tsixroads.com>
49) [43593] Re: digital vfos
by dave_epps@juno.com
50) [43594] RE: Kite Plans at Atlanticon?
by "Alex Mendelsohn" <ai2q@ispchannel.com>
51) [43595] Re: digital vfos
by Jim <w7ls@blarg.net>

Date: Fri, 25 Jun 1999 16:23:26 -0700
From: Bob Hightower <ki7mn@extremezone.com>
To: qrp-l@lehigh.edu
Subject: [43545] 2N2/40 Projects
Message-ID: <199906252316.QAA00504@enterprise.extremezone.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I know I shipped a ton of the boards and crystals, so there has to be a lot of activity on Jim Kortge's 2N2/40 transceiver.

>
> To see one in progress, go to
>
<<http://www.qsl.net/wb8rcr/2N2-40.htm>><http://www.qsl.net/wb8rcr/2N2-40.htm>. I
> know John will let me do this, 'cause he probably won't blow his own
whistle.
> Neat job, and most likely a real help to those just getting started.

Still got the T-shirts available too, just in case you need to refresh your memory on where to put the pads :^).

72,73
Bob Hightower KI7MN

<http://www.extremezone.com/~ki7mn>

Date: Thu, 24 Jun 1999 23:18:43 -0500
From: Ted Kell <tedkell@juno.com>
To: qrp-1@Lehigh.EDU
Subject: [43546] VE3DNL Crystal Controled Calibrator
Message-ID: <19990625.191207.-4047549.11.tedkell@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Just to let Jay know that kit # 131 went together with no problems and is nicely generating signals across the bands. This is a nice little kit that takes less than half an hour to build. It puts out a nice signal. Thanks Jay, Chuck and everyone else involved in creating this device.

Ted Kell
KC5CUW

Get the Internet just the way you want it.
Free software, free e-mail, and free Internet access for a month!
Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

Date: Fri, 25 Jun 1999 18:12:07 -0600
From: tom whalen <wb5qyt@eFortress.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [43547] FD fun!
Message-ID: <37741AD7.700E@eFortress.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Gang!

Will be heading out to the Rio Las Vacas area(ele.7000ft)in the morning for Field Day! Nice 75' pine trees to shoot antler's into(no problem for the pneumatic antenna launcher).If I get tired of operating, I will do a little fishing in the Guadalupe River that we will be parked next too. Should be nice and cool in the mountains. Been almost 100 degs here in the city(ALbuquerque).

Rigs: NC20 with a J-pole for the antler

OHR Spirit for 40 with a half square antenna

IC 706 for a few ssb contacts

Hope to work a bunch of QRP-L er's during the contest. Hope everyone has a great FD! Jay, I bet your going to be in the Ponderosa area. We should hear each other on 40...Good luck to you and have fun!!

72, Tom WB5QYT, AB5DX Drew(son)..." Have spud, bug and son will travel!"

Date: Fri, 25 Jun 1999 21:21:16 -0400
From: Don Lefrancois <wb1cdh@cwix.com>
To: QRP-L <QRP-L@Lehigh.edu>
Subject: [43548] Field Day QRP Exchange
Message-ID: <000301bebf72\$36a1c160\$55443ea6@0302316260447626>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Anyone know what the QRP field day exchange is for battery operated? Right now this is what I come up with

1A/B Ct Designating 1 Operator, Class A-Battery, from Connecticut.

Or should I omit the /B and just send 1A CT ?

Not sure so checking it out before it all hits the fan at 1800 UTC tomorrow.

Don/ K1NNP
Jewett City, Ct.

=====
Amateur Radio---K 1 N N P
QRP-L #1778 NorCal #1518 NE #436
Jewett City, Ct. 06351

Date: Fri, 25 Jun 1999 19:52:26 -0600
From: jaywa5whn@juno.com
To: qrp-l@lehigh.edu
Subject: [43549] RS-12/13 & Field Day
Message-ID: <19990625.195227.-803039.0.jaywa5whn@juno.com>

MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

N4BP and I have been comparing notes on where RS-12/13 {element set 197} should be for Field Day. The first available pass between Florida & NM {plus everything in between} is at 1931 UTC on 26 , June. Both of us are abusing two different prediction software packages. As it turns out, Bob, N4BP is absolutely correct. He does not see the 0814 UTC , 27 June pass over the USA. The foot print covers Alaska, and Western Canada & all of the Western US {Hello California}. The 2 best passes for North America is @ 0444 UTC & 0627 UTC on 27, June.

Here is what I show for AOS {plus or minus 5 minutes} of RS-12/13

26, June

1931 UTC AOS, foot print over most of the US & Canada & Alaska, ascending.

2111 UTC AOS, foot print over western US & western Canada & Alaska & Hawaii, ascending

27, June

0444 UTC AOS, foot print over all of Canada & the lower 48 States, descending

0627 UTC AOS, foot print over all of Canada, US & Alaska, descending

0814 UTC AOS, foot print over Western US & western Canada & Alaska & Hawaii, descending

1632 UTC AOS, foot print over Eastern US & eastern Canada, but @ 0 deg. elevation from DM65qs

N4BP has worked a few stations through the bird today. I have not. Tnx Bob for the updates.

I have worked RS-12/13 QRP cw, in the past.

FYI, last year during FD we had worked more Europeans & Russians after 0600 UTC on Sunday morning than North Americans on 20 cw & ssb, until about 0900 UTC.

@ T minus 16 hours & counting until Field Day.

72...Jay {WB5LYJ 1B NM DM65qs @

8,400 ft. asl}

PS Don't forget 6 meters...

Get the Internet just the way you want it.
Free software, free e-mail, and free Internet access for a month!
Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

Date: Fri, 25 Jun 1999 22:25:03 EDT
From: Bensondj@aol.com
To: qrp-1@lehigh.edu
Subject: [43550] Small Wonder Labs takes a break
Message-ID: <801bc9a4.24a593ff@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

gang-

I'm leaving first thing Saturday morning (June 26) for a 9-day trip to the far end of Virginia. This is a 'working vacation', a church-sponsored home-repair expedition.
My E-mail will be acknowledged while I'm absent, but it'll have to await my return for any action.

I'm (reluctantly) leaving on this trip with a 8-10 day backlog of orders. For those waiting on shipments from me, I'll ask for your continued patience. I'll be making every effort to get the backlog cleared when I return.

The new DSW enclosures should be shipping to me on July 5th- there's light at the end of the tunnel! :-)

73- Dave, NN1G
Small Wonder Labs

Date: Fri, 25 Jun 1999 20:11:47 -0700
From: sigcom@juno.com
To: qrp-1@lehigh.EDU
Subject: [43551] Sucrets box rig
Message-ID: <19990625.201150.-3769413.1.sigcom@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Group,

I've been considering resurrecting my Sucrets box rig "The Super Duper X Spy Transmitter". Was hoping to finish it in time to work Ed Hare and the Tuna while he was in Los Angeles, but oh well. Anyway, I traced out what was left of the circuit but couldn't remember exactly how I had built it. So I was planning to re-build it as a 2-stage job with VXO when, while fishing around the 'net for circuits, I linked from NorCal over to George's (KC6DWK) "QRP is Good 4 U" site and his "500mW CW Transmitter" <<http://www.ybi.com/brink/qrp/transmitter.html>>. His circuit looked very similar to the portion of the circuit of my rig that I'd traced out. While reading George's text, he mentioned that his circuit was based upon one originated by Ed Knoll, W3FQJ. That was when the fog lifted. I remembered Ed's book "Solid State QRP Projects". I went digging in the attic and then in the garage and found it! There within was the circuit of my transmitter, with the notes I'd made in the margin in 1971! My rig was an exact copy of his circuit, except that I'd used a toroid for the link-coupled tank instead of an air-wound coil and I'd added a bypass capacitor to the emitter of the transistor. The circuit description is a Pierce oscillator using a 2N3053 transistor. So now I've decided to restore the rig to as close to original as I can make it. Of course the output won't be spectrally clean enough to meet FCC reg's., so I'll have to use an outboard filter if I expect to put it back on the air. It sure will be fun to get that old thing going again!

73.....Steve, WB6TNL

Get the Internet just the way you want it.
Free software, free e-mail, and free Internet access for a month!
Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

Date: Fri, 25 Jun 1999 23:35:46 -0400
From: "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>
To: "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>
Subject: [43552] Re: Re Milli watt on CD
Message-ID: <37744A92.7EFD6099@home.com>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I recently purchased the CD from this site. It is a very nice package and well worth the price.

>'Forgot to include the link address in my previous post (for >Milliwatt
>CD), though it's the same one that Vince, VE3VFN just posted.
>
><http://www.qrpworld.com/miliwatt.htm>

--

+++++

T.J. "SKIP" AREY N2EI e-mail tjarey@home.com

Website <http://members.home.net/tjarey>

Snail Mail: PO Box 236, Beverly, NJ 08010

Specialization is for insects! LAZARUS LONG

Date: Fri, 25 Jun 1999 23:36:59 EDT
From: NM5Mike@aol.com
To: qrp-l@lehigh.edu
Subject: [43553] Nortex Field Day
Message-ID: <c39ac4e8.24a5a4db@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Does anyone have know where the Nortex QRP field day site is, and is it open for visitors?

Regards,

Eric, NM5M

Date: Fri, 25 Jun 1999 23:49:17 -0400

From: "Frank Matthews" <fmathews@pilot.infi.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [43554] SST Front Panel Design
Message-ID: <002301bebf86\$de446620\$b70b61d1@fmathews>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Fellow QRP'ers,

Does anyone have an SST panel design they would like to share. Someone posted a good looking panel for the NorCal 20 recently and thought there may be one for the SST out there as well. Thanks....

72, Frank

Date: Sat, 26 Jun 1999 03:55:44 +0000
From: Kirk Job Sluder <csluder@indiana.edu>
To: "qrp-l@Lehigh.EDU" <qrp-l@Lehigh.EDU>
Subject: [43555] Fractal antennas?
Message-ID: <37744F40.4A945E4A@indiana.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

In the current Scientific American there is a short article on fractal antennas. Basically the claim was that an antenna kinked into the shape of a fractal such as the Koch Snowflake or printed onto a circuit board such as a Sepanski Gasket or Square created an efficient multi-band radiator. The article included a photo of a cellular phone designed for both cellular and GPS that used a printed circuit board with a Spanski Square fractal for the antenna.

Does anyone have more information about this idea or know where to look?

--
Kirk Job Sluder (csluder@indiana.edu)

Personal Home Page (<http://php.ucs.indiana.edu/~csluder/home.html>)
KB9TUT Bloomington, Indiana

Date: Fri, 25 Jun 1999 23:15:49 -0500
From: "Chuck Adams K5FO" <adams@ticnet.com>
To: qrp-1@lehigh.edu
Subject: [43556] Hey, pictures are ready
Message-ID: <E10xim9-0005gs-00@pop3.ticnet.com>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

Jay,

The pictures of the plated V2L and the Hensley are
online now:

<http://www.qsl.net/k5fo/secret.htm>

Neat looking, huh? Also the small amount of dust
does show up but the chrome looks perfect. Can't
wait to get mine....

dit dit

Chuck Adams K5FO adams@ticnet.com <http://www.qsl.net/k5fo/>

Date: Fri, 25 Jun 1999 21:56:17 CDT
From: James R Giammanco <n5ib@juno.com>
To: qrp-1@Lehigh.edu
Subject: [43557] DSW40 on the air in Cajunland
Message-ID: <19990625.215618.7527.1.N5IB@juno.com>

Finished my DSW40 and packaged it in another wooden recipe box. Haven't
yet done the copper foil lining. Only two glitches in the whole project:

(1) My PIC was an earlier firmware version and had startup troubles, but
Dave promptly (nay, nay, at nearly light speed!) shipped out a new PIC.
Everything worked as expected as soon as it was installed.

(2) Can't quite get the BFO offset low enough to match the sidetone pitch when at the limit of the trimcap. It's probably within 100 Hz, so not a big deal. I'm trying to puzzle out in my muddled thought processes what to do - Rx uses high side first LO injection - need to lower the audio pitch - so do I need to move the BFO up or down, and is that more more less C in series with the BFO crystal?? - one of you gurus straighten me out, pleaseNo, No, No, NOT YOU Dave, you've done enough! Relax and enjoy your excursion.

Haven't QSO'd yet, but that's because its been raining and storming here all evening. Probably will baptize it in the "refiner's fire" of Field Day. Straight key mode only.

I use the RIT sort of as a memory - if I hear something I'd like to come back to I turn on the RIT so I can tune around some more - then turn off the RIT and am right back to the original spot.

In short, great kit, great rig. Very open board layout for such a compact and sophisticated rig. Nice big pads and plenty of elbow room to work in. Anyone with only modest building skills should have no problem.

72 to all and a special "merci" to Dave. With this rig I can surely "let the good times roll"

Jim N5IB

Get the Internet just the way you want it.
Free software, free e-mail, and free Internet access for a month!
Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

Date: Fri, 25 Jun 1999 21:36:14 -0400
From: Nils R Young <nilsbull@juno.com>
To: QRP-L@lehigh.edu
Subject: [43558] Building experiences, part III, verse 9 . . .
Message-ID: <19990625.213618.16334.0.nilsbull@juno.com>

Gang,

Ok, I'm at the middle of the end of the third set of building experiences with the K2, headed for the VCO checks and the first hearing of 40m signals. But I have to stop & send Eric a note, 'cause I think I'm missing some parts &c. Eric responded with all the info & set me straight.

Stupid gringo. I should have read the errata notes that were on top of

all the paperwork that was in the box that held the parts that I thought I was missing. Literacy is a great thing to waste, even if you had one and didn't know about it.

So far this building experience has been great therapy. I get to sit for hours on end on a metal stool what allows me to let my right leg just kinda hang over the side, relieving pressure on the still sore innards what ain't gotten the hint from all the vitamin E & Joe Weider protein supplements & such. You'd think I was in training for a steroid scholarship or something, what with forgetting to read & remember the stuff on the errata sheet that I distinctly remember reading, except that I missed the message.

Stupid linguists.

Anyway, if you ain't got yer K2 yit, hold on. It'll be there. I got the notice that mine had been shipped & zippo-bang, two days later it shows up. I'd bet a lot of folks who are wringing their hands & fretting the deal will be surprised quick up. And if you have rehab time or vacation time or whatever, hold on to yer hats. You're gonna love building this puppy.

Now if I could just figure out what those two little grey-clay capacitor-lookin' doodads with thick wire legs & a black mark on the top were, I'd feel a lot better about all this.

Oh, get a magnifying glass. And be glad there ain't one jot of SMT/SMD stuff on this puppy.

And try not to get so wired that when you close your eyes you see board layouts or bunches of capacitor lookin' things that you can't identify, even with the parts list & a reminder about who's the stupid gringo after all.

73

Nils

. . . I'm waiting for the meds to kick in. Got off my daily regimen by winding those 40m LPF coils I think.

Nils R. Bull Young :: La Estancia de los Guajolotes Sonrientes
WB8IJN &c :: The Tagalong Press :: email to nilsbull@juno.com
"In my day we had to FIGHT to have email! Every day was a struggle!"
-- Comrade Sergei Nikolaievich

McTovarishov

Get the Internet just the way you want it.
Free software, free e-mail, and free Internet access for a month!

Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

Date: Fri, 25 Jun 1999 21:24:31 -0700 (PDT)
From: "Jack Oakland, CA" <w6abc@yahoo.com>
To: qrp-l@Lehigh.EDU
Subject: [43559] Red Hot NC-20 U3?
Message-ID: <19990626042431.3328.rocketmail@web113.yahoomail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Just got done with the VFO buffer section of the NC-20
and maybe it's late but I can not find the U3
(TUF-1) to set the hookup wire on the junction of C15
and U3.
Where's the U3 on the PCB?
Thanks,
73, Jack

Do You Yahoo!?
Get your free @yahoo.com address at <http://mail.yahoo.com>

Date: Sat, 26 Jun 1999 02:30:19 EDT
From: WB9MII@aol.com
To: QRP-L@lehigh.edu
Subject: [43560] Did anyone ever use this for a ground ???
Message-ID: <536e0fa4.24a5cd7b@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hello folks,
Has anyone who is apartment bound ever used a wire and lug to the center
screw on an electrical outlet faceplate (other end of the wire to the ATU) as
a ground ? If so..did it work? Kinda an idea I had but I'm sure I'm not the
first one to try it. Very interested in anyones experience with this.
Thanks 72/73
Greg WB9MII
QRP ARCI 9719

Date: Sat, 26 Jun 1999 04:10:58 -0400
From: "Ed Tanton" <n4xy@att.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>, <n5ib@juno.com>
Subject: [43561] RE: DSW40 on the air in Cajunland
Message-ID: <006b01bebfab\$6c3de0e0\$01010101@n4xy>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Jim... Dave has already mentioned that the adj variable is probably too small. I would add 25% of the value of the cap (I don't recall what it is) across the cap's terminals, under the pc board, and see if that doesn't clear it. Mine is several hundred Hertz away-but it isn't a big deal. I just expect answers to CQs be a certain nr (3) of 50Hz clicks off to one side, and tune there with the RIT engaged. I'm sure I'll change the cap one of these days.

When it's ready, get the cabinet: it's a beaut!!!

72 / 73 Ed N4XY Elecraft K2 sn: 000057

Ed Tanton N4XY EMAIL: n4xy@arrl.net
189 Pioneer Trail
Marietta, GA 30068-3466 TEL: (770) 971-0436

INTERESTS: *CW (99.5%) *QRP (QRP-L# 758)
*BoatAnchors *Test Equipment *Photography

~~~~~  
"Begin at the beginning... and go on until you come  
to the end: then stop."

The White Rabbit, from "Alice In Wonderland"  
~~~~~

Date: Sat, 26 Jun 1999 09:54:04 +0100
From: John Fletcher <johnf@innotts.co.uk>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [43562] Did anyone ever use this for a ground ???
Message-ID: <199906260854.JAA04174@carlton.innotts.co.uk>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Greg,

Last year I was on a three-day training course away from home and I took my homebrew copy of a NorCal 40 to use from the hotel room in North England. For ground I used the earth of the power socket and for the antenna I used the metal

framework of the suspended ceiling. Only had one QSO (not much time) but with one watt out I got a good report from a station near Paris, France. Later I discovered that the resistive bridge attenuator was still in circuit, so just 250mw reaching the antenna. Yes it does work, but if you run QRO it might cause problems.

73,

John G4EDX
John Fletcher
Operator of British Amateur Radio Station G4EDX

Date: Sat, 26 Jun 1999 05:43:49 -0400 (EDT)
From: Bob Patten <n4bp@bc.seflin.org>
To: Don Lefrancois <wb1cdh@cwix.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [43563] Re: Field Day QRP Exchange
Message-ID: <Pine.3.89.9906260553.D16023-01000000@bc.seflin.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 25 Jun 1999, Don Lefrancois wrote:

>

> Or should I omit the /B and just send 1A CT ?

>

Omit the /B or you'll get asked for MANY repeats! 1A CT is correct.

73,

Bob Patten, N4BP (0 0) Plantation, FL
-----o00o-()-o00-----

E-Mail: n4bp@bc.seflin.org
Web Page: <http://wg104a.wh.uni-stuttgart.de/~n4bp>
Brass Pounder BBS: (954) 472-7715

Date: Sat, 26 Jun 1999 06:21:51 EDT

From: K4NK@aol.com
To: qrp-1@lehigh.edu
Subject: [43564] Century 21
Message-ID: <b311e7c.24a603bf@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hey Gang;

I recently got a pristine TenTec Century 21. It is a great rig but the dial slips a little. Any body out there have a hint on what will help this? Any mods out there for this rig? Thank You.

72 Les K4NK

Date: Sat, 26 Jun 1999 07:02:38 -0400
From: "Jerry W. O'Dell" <jwodel@ameritech.net>
To: qrp-1@lehigh.edu
Subject: [43565] digital vfos
Message-ID: <19990626110301.XVQ1176@default>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

A while back someone on this list (I think) seemed to be ready to develop a digital vfo for, I think, \$55. That seemed a wonderful idea.

It seems to me that with modern techniques, that's about the right price. Most of the ones available cost more than a lot of rigs.

Please email me if you know: jwodel@ameritech.net. Don't want to clobber the list.

73 jerry w8gnd

Date: Sat, 26 Jun 1999 11:31:32 -0400
From: "Rich Dailey, KA8OKH" <ka8okh@som-uky.campuscw.net>
To: qrp-1@lehigh.edu
Subject: [43566] Solar conditions
Message-ID: <3.0.16.19990626113116.2fb7f126@som-uky.campuscw.net>

Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Ok, it is Sat morning, 7:30 am local (KY). I just worked
Maine on 10m at 4 watts.

Now go look at the solar chart at dxlc.com. See the trend?
See how low the A index is? The flux?

7:30am, KY to ME on 10m, QRP. Field day weekend.
Get the hint?

These are the salad days to be sure. But the sun sure looks
mean today. Sol giveth and Sol taketh away... get it while
you can.

tu de Rich

Rich Dailey, KA8OKH <ka8okh@som-uky.campuscw.net>
"The deadly yellow snow from right there where the huskies go" - Zappa

Date: Sat, 26 Jun 1999 06:47:02 -0500
From: "Steve Yates, AA5TB" <aa5tb@swbell.net>
To: <csluder@indiana.edu>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [43567] Re: Fractal antennas?
Message-ID: <002801bebfc9\$9bfc7da0\$f137a497@aa5tb>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Oh No!

For the latest information (propaganda?) go to:

<http://www.fractenna.com/>

Have fun.

73,
Steve Yates - AA5TB
Fort Worth, TX - EM12gs

<http://home.swbell.net/aa5tb>

Date: Sat, 26 Jun 1999 07:54:06 -0400 (EDT)
From: Bob Patten <n4bp@bc.seflin.org>
To: "Rich Dailey, KA8OKH" <ka8okh@som-uky.campuscw.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [43568] Re: Solar conditions
Message-ID: <Pine.3.89.9906260723.A29103-0100000@bc.seflin.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sat, 26 Jun 1999, Rich Dailey, KA80KH wrote:

>

> 7:30am, KY to ME on 10m, QRP. Field day weekend.

> Get the hint?

 $\succ$

10M could well be the bread and butter band for QRP this weekend. Good rule of thumb for any QRP activity is to be on the highest frequency that is open. Be sure to check 10M often!

73,

Bob Patten, N4BP (0 0) Plantation, FL
o00o-()-o00

E-Mail: n4bp@bc.seflin.org
Web Page: <http://wg104a.wh.uni-stuttgart.de/~n4bp>
Brass Pounder BBS: (954) 472-7715

Date: Sat, 26 Jun 1999 08:00:19 -0400
From: Steven Mann <smann@advi.net>
To: cs luder@indiana.edu
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [43569] Re: Fractal antennas?
Message-ID: <3774C0D2.ECF8CE3D@advi.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Go to www.fractenna.com.

Nathan Cohen, the Boston University radio astronomer mentioned in the article, is N1HR (hope I've remembered his call correctly.)
Steve, N4EY

Kirk Job Sluder wrote:

> In the current Scientific American there is a short article on
> fractal antennas. Basically the claim was that an antenna kinked into
> the shape of a fractal such as the Koch Snowflake or printed onto a
> circuit board such as a Sepanski Gasket or Square created an efficient
> multi-band radiator. The article included a photo of a cellular
> phone designed for both cellular and GPS that used a printed
> circuit board with a Spanski Square fractal for the antenna.
>
> Does anyone have more information about this idea or know where
> to look?
>
> --
> Kirk Job Sluder (csluder@indiana.edu)
> Personal Home Page (<http://php.ucs.indiana.edu/~csluder/home.html>)
> KB9TUT Bloomington, Indiana

Date: Sat, 26 Jun 1999 07:03:03 -0500
From: "Randy Jouett" <rules@bellsouth.net>
To: "James R Giammanco" <n5ib@juno.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [43570] Are you a Sharpie (Was Re: W1RFI)
Message-ID: <004601bebfcc\$81a9b910\$6a66d6d1@spock>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

-----Original Message-----

From: James R Giammanco <n5ib@juno.com>
To: rules@bellsouth.net <rules@bellsouth.net>
Date: 6/25/1999 10:16 PM
Subject: Re: W1RFI

[Decided to post my reply to the group and see if any1 else has sumfin' to say :^)]

Hi, Jim. Nice to "finally" see a fellow Cajunland ham on qrp-l !! I thought I was the only one with this addiction :^). Hmmm. How about we start up the Cajun QRP Club? cQRPc?? We cud hand out Crawfish, Gumbo, and Justin Wilson awards and such! :^)

>Randy,

>

>you're doing better hunting the TT2 than I have been able to from my BR
>QTH - too much power line noise fom 70 kV lines behind the house, have
>never heard Ed at all...

Well, fortunately, I live on an acre lot with some room for a decent antenna.

These days I'm using an Inverted Vee at 70 ft. For some reason, I've always been able to copy weak signals from this location. Probably has something to do with the decent ground we have around here (8' water table).

I'm going to put the 2-element phased array (flat-top dipoles) back up in a few days, and I'm sure I won't have any problems copying Ed from his 1-land QTH. BTW, I have a sked set up with him on 40 Mtrs. Here are the details:

> I am going to be on Tuesdays and Thursdays (TT) from about 2359 to
>0200 UTC. We should be able to sked easily.

I'm going to meet up with him this coming Tuesday. You are welcome to join us, Jim.

>BTW, I remember a "Hint and Kink" that said the RED Sharpie was the best
>of all, almost as good as resist pens and much cheaper... I've tried it
>and got OK results, but be careful not to heat the etchant too much ...
>100 to 120 degrees (F) or so I guess

Well, I tried the black Sharpie because I had a couple of em hanging around :^).

The Radio Crap pen ran out, so I said, "What the heck. Lemme give it a shot!"

and it worked. Needless to say, a ton of people here on qrp-l sent me some e-mail saying they've been using em' for years. Go figure :^).

BTW, I read an article in an old 73 mag from the seventies that said that you could dilute the FC (ferric chloride) with water. Half FC and half warm water. The

guy said that not only did it allow you to make the FC last longer, it also sped up etching! Sounds good to me!

Another qrp-ler, N6CHV (Micheal Neverdosky) had this to say:

"Actually the sharpie is one of the best pens for PCB work. I even have an article around here somewhere on how to use the sharpie in an HP plotter.

I need to dig out that article as my plotter is just sitting waiting with nothing else to do. :-))

BTW Really large areas can be covered with tape. I use 3M 33+."

I'm wondering how masking or scotch tape will work. Anyone out there try this?

Anywho, thanks for the info, Jim and hope to see you on 7.040 some time.

145 (72 + 73 :^) ,

Randy

Randy Jouett, AB5NI

I eat spaghetti code out of a bit bucket while sitting at a hash table :^)

Date: Sat, 26 Jun 1999 07:09:23 -0500
From: "Randy Jouett" <rules@bellsouth.net>
To: <csluder@indiana.edu>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [43571] Re: Fractal antennas?
Message-ID: <005101bebfcd\$36a20020\$6a66d6d1@spock>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

-----Original Message-----

From: Kirk Job Sluder <csluder@indiana.edu>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Date: 6/25/1999 11:19 PM
Subject: Fractal antennas?

>
>In the current Scientific American there is a short article on
>fractal antennas. Basically the claim was that an antenna kinked into
>the shape of a fractal such as the Koch Snowflake or printed onto a
>circuit board such as a Sepanski Gasket or Square created an efficient
>multi-band radiator. The article included a photo of a cellular
>phone designed for both cellular and GPS that used a printed
>circuit board with a Spanski Square fractal for the antenna.
>
>Does anyone have more information about this idea or know where
>to look?

Hi, Kirk. There was an article on fractal antennas in one of the ham rags
last year, I believe, and the outfit was called Fractenna (or something
along those lines). Give em' a search on the web.

145 (72 +73),

Randy

Randy Jouett, AB5NI

I wonder if Dilbert ever got his ham license?

Date: Sat, 26 Jun 1999 08:14:35 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: QRP-L@lehigh.edu
Subject: [43572] Power line grounds
Message-ID: <3774C42A.55A0@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Guys,

Before this thing goes any farther, please understand teh essential
differences between DC grounds and RF grounds.

Using the center screw on a power socket may result in your being connected to the ground for the incoming AC power line. It may also result in your ground being three or four feet long. Grounds, especially in older houses and buildings, are notoriously non-continuous!

As for using this ground for an antenna, it may work and it may not. I would say for the most part it will not and might increase your TVI!

73

Date: Sat, 26 Jun 1999 12:59:44 -0400
From: "Rich Dailey, KA8OKH" <ka8okh@som-uky.campuscw.net>
To: qrp-1@lehigh.edu
Subject: [43573] Solar condx - oh well...
Message-ID: <3.0.16.19990626125933.2faf53d6@som-uky.campuscw.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

It was neat while it lasted. 10m was open this morning *early*... honest. But now (1245utc) everything is just a big wash of noise. I sort of expected something like this. Hope it cleans up a little before FD is over.

It started about 1200ut with some wide sweeping noises (I was rx on 28.060), interspersed with some crashes, then the tide came in.

Paul Harden must be demonstrating something again.

tu de Rich

Rich Dailey, KA8OKH <ka8okh@som-uky.campuscw.net>
"The deadly yellow snow from right there where the huskies go" - Zappa

Date: Sat, 26 Jun 1999 09:06:20 -0400
From: "John J. McDonough" <jjmcd@tm.net>
To: <aa5tb@swbell.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [43574] Re: Fractal antennas?
Message-ID: <003a01bebfd4\$b24fd1a0\$010044c0@conor-mac-nessa>
MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

-----Original Message-----

From: Steve Yates, AA5TB <aa5tb@swbell.net>

>For the latest information (propaganda?) go to:

I don't know why folks are so down on Chip. His claims really aren't that outrageous (although some newspaper reports are a bit exaggerated).

Basically, the real advantage of this sort of antenna is the very low production costs at UHF. If you are in the business of making cell phones, it's a big deal. For amateur purposes, it does allow SLIGHT reduction in antenna size without huge performance losses. Chip's fractal quad yagi does get a pretty impressive front to back ratio, but really not exceptional gain. So don't look for any magic here.

Also, and this is the big delta for amateur use, it's really not practical to calculate the size of this antenna for another band. (Chip's web site has dimensions for 10 meters). Actually, I think it does scale, but it's very sensitive to wire diameter, so you have to scale the wire diameter too! The only real way to figure out the dimensions for a different frequency is to model the antenna. Since there are a lot of segments in his antenna, modelling it is tedious business. I have been able to duplicate Chip's modeling results, and what little physical experimentation I've done does seem to indicate that reality reflects the model, but I haven't had time to build a real production antenna, and I don't have any test equipment, so I can't say definitively that his results are reproduceable, only that they appear to be as far as I've been able to tell.

But let me emphasize this isn't a traditional wire antenna, where the wire diameter doesn't matter. This is all about wire diameter, and that means that you can't simply scale the antenna to move it to another frequency.

And as far as I can tell, this isn't magic. The antenna is made smaller by adding reactance. The reactance happens to be distributed along the antenna, which makes it a little nicer, for some applications, than traps. But the big selling point is that the reactance is added without adding components, which makes it a lot cheaper to mass produce than other schemes. This isn't a big deal for amateur use, since putting all those bends in the antenna is at least as painful as adding a few components.

If anyone is interested, and has NEC2 or EZNEC, I have C source for creating

a NEC2 model of an FQY. However, this is a program for my experimentation - it's not a 'production' program. And you need a C compiler and at least a little C skill for it to be useful! Also, it's a little misleading so you really need to understand NEC and the FQY.

Also, there were a couple of short articles in the April issue of 'Monitoring Times'. If you have the mag, take a look at the cover - yours truly did the artwork :-))

72/73 de WB8RCR <http://www.qsl.net/wb8rcr/>
didileydadidah QRP-L #1446 Code Warriors #35

Date: Sat, 26 Jun 1999 09:23:23 -0400
From: David Hinerman <wd8civ@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [43575] Re: Did anyone ever use this for a ground ???
Message-ID: <3.0.6.32.19990626092323.0079f100@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 02:30 AM 6/26/99 EDT, you wrote:

>Has anyone who is apartment bound ever used a wire and lug to the center
>screw on an electrical outlet faceplate (other end of the wire to the ATU)
as
>a ground ? If so..did it work? Kinda an idea I had but I'm sure I'm not
the
>first one to try it. Very interested in anyones experience with this.

Greg,

Sometimes it works, sometimes it doesn't. Assuming the outlet box is even made of metal (some places use plastic boxes), the electrical ground wire is most likely tied back to the breaker panel, which could be yards away. Plus, it's intended for low frequency, so the installer probably didn't worry about low impedance connections. Furthermore, nearly every other piece of electrical or electronic equipment in the building is connected to it, injecting noise into it.

In short, it's probably better than nothing, but not much.

The old standby ground, the cold water pipe, isn't even as good as it used to be. There's no guarantee that it'll be a metal pipe all the way into the underground main - there may be a stretch of plastic in the line somewhere.

Anything is worth experimenting with, however - give it a try! Just be aware of what you're up against. Also, be very careful about high RF voltage at high impedance spots - it wouldn't do to electrocute a neighbor for the sake of the hobby.

Dave, WD8CIV

Dave Hinerman - WD8CIV

Date: Sat, 26 Jun 1999 13:44:02 GMT
From: kew@teleport.com (Keith)
To: WB9MII@aol.com
Cc: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [43576] Re: Did anyone ever use this for a ground ???
Message-ID: <3776d8a5.2456903@192.108.254.43>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: quoted-printable
Content-Transfer-Encoding: quoted-printable

On Sat, 26 Jun 1999 02:30:19 EDT, you wrote:

>Hello folks,
>Has anyone who is apartment bound ever used a wire and lug to the center=
=20
>screw on an electrical outlet faceplate (other end of the wire to the =
ATU) as=20
>a ground ? If so..did it work? Kinda an idea I had but I'm sure I'm =
not the=20
>first one to try it. Very interested in anyones experience with this. =20
>Thanks 72/73
>Greg WB9MII
>QRP ARCI 9719

Hi Greg,
Yes I sure did when I was 15 years old. To make a long story short=20
the next time my mom ran the garbage disposal my SWL radio transistors
were blown.=20

HTH,

Best Regards,

Keith

<http://www.teleport.com/~kew> www.teleport.com/~kew/ham_swl_radio/

9th Circuit Judge Fletcher: Then you're not contending that the---our government's capacity to protect its communications is compromised. What you're asserting is that what's compromised is your capacity to=20 eavesdrop on others.
=20

Date: Fri, 25 Jun 1999 11:52:46 -0400
From: "Jim Stafford, W4Q0" <w4qo@amsat.org>
To: QRP-L <qrp-l@lehigh.edu>
Subject: [43577] Re: Kite Plans at Atlanticon?
Message-ID: <3773A5CE.47BCB2CE@amsat.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Darn, I wanted the KITE plans. Now there's a design contest we have yet to exploit!

We did however fly a kite antenna two years ago at FDI and zapped the front end of my INDEX LABS from static charge build up - oh, for a grid leak when you need it!!

W4Q0 - Late Proud Member of the Ben Franklin Society!

--
Jim Stafford, W4Q0 770-993-9500 VP - QRP/ARCI #6515
+++The THRILL is back - QRP - what ham radio is all about!
+++<http://www.qrparci.org>

Date: Sat, 26 Jun 1999 10:21:45 -0400
From: hapence@erols.com
To: QRP-L@lehigh.edu
Subject: [43578] E-MAIL address for QRP-L activities???

Message-ID: <4.1.19990626095259.00947280@pop.erols.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

906261018

Help I have lost my QRP Club files, would appreciate QRP-L ADDRESSES

Tnx Y Paz Grover KQ4AL

Date: Sat, 26 Jun 1999 09:22:18 -0500
From: "Chuck Carpenter" <w5usj@globeco.net>
To: w6toy@erols.com, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [43579] Re: Power line grounds
Message-ID: <3.0.2.32.19990626092218.0069a4c4@bosshog.globeco.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

QRP-Lers,

As Bruce has pointed out ---

Grounds in all the houses I've wired to NEC and local standards are in only one place. That's at the service entry box. In the modern duplex sockets, the safety ground and white-wire neutral are both connected back at the service panel ground buss which is then grounded to one or more driven 6 ft ground rods (usually only one). Depending on where your station is connected, you may be at the end of a long run of wire or in the middle some place. Probably not next to the service entry because it's often in a garage or other out-of-the-way place.

I wired my own house so I planned for separate RF and DC grounds at my station location. It's on the opposite end of the house from the service entry. I drove two 6 ft rods and connected to them with a length of RG-8 shield about 6 ft long. Unless your electrician is a ham or otherwise has RF knowledge, don't expect the safety ground to have any useful RF properties. I wouldn't expect it anyway even in my own house. The best you might hope for is some sort of random counterpoise. But don't bet on it.
72/73 Chuck - W5USJ - EM22cv - Rains County - Point, TX

Date: Sat, 26 Jun 1999 07:42:50 -0700
From: "Bill Todd" <bill@willapabay.org>
To: <nwq-l@scn.org>
Cc: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>

Subject: [43580] 80 meter CW Net
Message-ID: <003301bebfe2\$2af27740\$9ab5ded1@bill>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hello everyone -

It is 7:30 AM in Washington state, and I am just about to start the NW QRP Club CW Net on 3710.

If anyone "out there" wants to check their Field Day antenna... now's your chance.

CUL, & good luck to all
Bill-N7MFB
<http://www.willapabay.org/~bill>
ICQ @ 8926298

Date: Sat, 26 Jun 1999 08:10:18 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: Kirk Job Sluder <csluder@indiana.edu>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [43581] Re: Fractal antennas?
Message-ID: <Pine.BSI.3.96.990626080641.25176B-1000000@usr08.primenet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sat, 26 Jun 1999, Kirk Job Sluder wrote:

>
> In the current Scientific American there is a short article on
> fractal antennas. Basically the claim was that an antenna kinked into
> the shape of a fractal such as the Koch Snowflake or printed onto a
> circuit board such as a Sepanski Gasket or Square created an efficient
> multi-band radiator. The article included a photo of a cellular
> phone designed for both cellular and GPS that used a printed
> circuit board with a Spanski Square fractal for the antenna.
>
> Does anyone have more information about this idea or know where
> to look?
>

If you surf over to:

<http://www.dx1c.com/solar/>

you'll see that the solar flux hit a value of 200.6 yesterday at 2000UTC. This is the HIGHEST value recorded for this sunspot cycle. You'll see the chart has a value over 250 for the sunspot count and it seems to still be rising. Planetary A index value was 5.

Don't give up on 15 meters and 10 meters during the contest ^h^h^h^h^h^h emergency exercise....

FYI

Chuck Adams K5FO adams@ticnet.com <http://www.qsl.net/k5fo/>

Date: Sat, 26 Jun 1999 12:13:31 -0400
From: Fred J Kalt <w2xn@juno.com>
To: qrp-l@lehigh.edu
Subject: [43583] Results of Recommendation for Rig (long)
Message-ID: <19990626.121332.-605621.0.w2xn@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Back on June 23rd, I asked for experienced recommendations for or against both the Ten Tec 1340, and the OHR-100A. I want to thank all those who took the time to give me their input. I received 17 notes with recommendations or comments. Below is the summary and all the notes follow (without identification of sender).

For OHR-100A	11
For Ten Tec 1340	2
Other	4

Thanks again to all who gave me their input.

Fred W2XN
Lakeland, FL
W5YI-VE Skywarn #POL-007 Polk County ARES Net Manager AR QRP
#233 QRP-L #1728

My Web Page: <http://w2xn.homepage.com/>

I suggest looking at the new DSW-40. It has better band coverage and built in keyer and frequency is sent via CW. I have a 20m version on order now. The cost is \$90 w/o the enclosure. Look at the Small Wonder Labs website. There is also a review of the 40m kit by K5FO in the reflector archives and in the Adventure Radio Society website.

I've built the OHR 100A-20. Now have the 40 and the 30 both picked up used. The components of the OHR are absolutely first rate and the board is a work of art. I had no problem building it except for the final alignment which is not "quite on" -but that can be diddled with when I get to it.

I've not built the TT although I am on the list and own about 4 TT units-none QRP (except I just found I can tune the Triton down to about

output).

As a list member I have read a number of complaints about the TT unit. Frankly I am very happy with the OHR and would not even consider a TT at this time.

I do believe the TT alginment may be better as I understand they have various tests during the building process;by stage. That's a good point in their favor.

Fred, get yourself a real radio, The OHR. The ten tec qrp rigs are junky/thumpy featureless clunkers.

I hope you will post the results. I vote for the OHR-100a.

If you want a very nice self contained rig at 2w, go with the new DSW from Small Wonders at \$125 = If you want 5w rig, go with the Emtech NW-40 (or whatever band you want) at \$130. Sites for all these companies can be found from the ARKIE site - below right - just check Quick QRP Links on the seond page.

Neither are much more than the two you mentioned and both are better "buys" in my book. I hear the TenTec can be finicky and some have had trouble getting going and OHR is kinda dated, but both are good rigs. How's that for waffling???

Emtech and DSW cover both the extra thru novice band without internal readjustment. DSW includes freq readout and keyer. To make your two equivalent would take at least another \$60 each. So I conclude that DSW especially is a great value. If you don't need those features and 2watts ok, then the SW40 is only \$55 sans case and knobs/pots.

I didn't make this up. It is in the report given by Doug Hendricks at Dallas HamCom.

've built and enjoyed the OHR-100A (40m version) -- made many contacts and it's been utterly reliable. It's my favorite monobander. I haven't had any experience with the 1340, so I can't comment on it.

I feel the OHR-100A packs a *lot* of great features into a rig at a great price. I think you'll find the construction very straight forward. Alignment is quite easy (a frequency counter and a multi-meter help.) Alignment of the VFO toroid (L114) is a step that some feel is a bit tedious. Just takes a little time to get the coil right on frequency -- spreading the coil windings a bit :-))

The rig has plenty of audio, great QSK, plenty of RF-out (8-10 watts) and a very sensitive receiver. I even installed a capacitor mod so mine tunes from 7.00 - 7.150 MHz.

I'd vote for the OHR. Let me say this though, I have not built either one. My impressions are based on problems reported here on the list. The TenTecs seem to have some problems with toroidal interactions. The OHR's seem to be a fairly straightforward design, several years old, and seem to give good service.

Had both -- didn't like the OHR, loved the Ten Tec, especially when I couldn't

get it to work, sent it back for their \$25 fix, and it came back in 2 days

with the note: "Bad part -- N/C". Good old Ten Tec. OHR drifted and had in my view a lousy filter

If you decide you would rather have a fully assembled and ready to go OHR-100A for 40, let me know. I have one which is redundant at this point.

Complete with the DD-1 digital display. This is the very rig which I used

as a FOX during the season just past. Will sell it complete with insured UPS shipping to your CONUS address for only \$155.00.

Not being nosy, I hope :-). Just an offer.

I didn't build both, however, I went to Ten-Tec factory and looked at their

kit, bought manual. Nice rig, but I decided to go with the OHR 100A (30m)

and I love it. More importantly, it is easy to build and most important of

all, it works!

I usually get response (answer their CQ) first try. Using INV V made of zip

cord, no balun. Really! Oh, I am using 1 watt out. My power supply

would

not supply enough power for 5 watts out so just tried 1W and it works great.

I did test the rig for output on a motorcycle battery and it puts out just

over 5 watts and sounds great.

You have two good choices in front of you, but I really like my 100A.

I have no personal experience with building either BUT ... my club built a 1340 and it quit transmitting the first day. I've read a number of complaints about 1340's on the list but never any about OHR.

In

any event good luck with building. I'm sure you will enjoy it.

I have not had any experience with the OHR100A so can't comment on it. I have recently built a Ten-Tec 1340 and am very impressed. Excellent instructions, very sturdy case, good receiver (to my ear). Also, I'm sure you've done the math as I did before I bought, but all other things being equal the 1340 seemed like a better deal to me. Admittedly, the variable IF filter on the OHR100A would be nice (varies from 1200Hz down to 400Hz) but QST tested the 1340 (Sept '98) and found a -6dB bandwidth of 639 Hz - not bad really - and you probably don't want to be any much wider than that for most CW operating. The 1340 does have a fairly high parts count and is probably not a first-time kit, in my opinion. The 1340 was also reviewed in the Sept '97 "73" magazine. See also the G3YCC website for more info on best QRP kits.

I would recomend the OHR 100a, but thats just me.

Will you please forward any advice on which rig?

I have same problem. I also considered the Small Wonder Lab DSW40-just out.

Many thanks,

I vote OHR.

My vote would be for the Oak Hills 100A.

You get a one on one contact with the manufacturer and Marshall Emm has been very great to work with in ordering and problem solving. Also he has Dick Witzke (100A designer) as a backup if he can't solve the problems that might appear. Also with the OHR 100A, you have audio bandwidth filtering, output for an external digital readout, very nice cabinet that is a pleasure to do the "show & tell", and the analog readout dial on the front panel is pretty accurate, and it is a quality kit with components, printed circuit board, and cabinet.

I have 9 Oak Hill Research rigs in the shack and 4 Ten Tec transceivers. Now, I must say that when Ten Tec finally gets

their 15 meter qrp transceiver finished and on the market,
I will be buying one of them to finish out my qrp equipment.
However, I have already bought an audio bandwidth filter
to install in the 15 meter Ten Tec.
Good luck, and it will be interesting as to the responses you
will be receiving.

I can't say anything about the Ten Tec, but I love my OHR-100A
It is the first kit of any real size that I built and I had a
great deal of fun building it. Alignment was not too bad. I used
another station rig to help. At the time I did not own an oscilloscope
or a good DVM. I use my OHR more than any other rig I own so I would
recommend it.

Get the Internet just the way you want it.
Free software, free e-mail, and free Internet access for a month!
Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

Date: Sat, 26 Jun 1999 11:39:44 +0000
From: "Steven Weber" <kd1jv@moose.ncia.net>
To: jwmodell@ameritech.net
Cc: qrp-l@lehigh.edu
Subject: [43584] Re: digital vfos
Message-ID: <199906261623.MAA24971@moose.ncia.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

> A while back someone on this list (I think) seemed to be
> ready to develop a digital vfo for, I think, \$55. That seemed a
> wonderful idea.
>

Hi Jerry,

That would be me.

I'm CCing this to the list, as I have 5 of the VFO's ready to go and
parts for 25 more on hand. Hope I don't get into trouble:-)

There is, of course, a reason why mine only costs \$55.00 and the
others cost almost \$200 (in some cases). Mine uses a much less

expensive DDS chip, (AD9835) so the highest freq it can produce is 9.5 Mhz. (100 Khz min) and there is no LCD display.

I designed this one to be primarily used to replace diode tuned VFO's in common QRP rigs, and they rarely use a VFO above 9.5 Mhz, so that shouldn't be a problem. Also it's very small, only 2" wide by 1.6" deep and 1/2" tall, so you can fit it in the small box most rigs are built in. Might even fit in a SST! Requires only round holes for mounting.

Instead of a LCD digital freq readout, I use four leds as a "LED Dial". These can be set up to indicate sub bands in your desired tuning range or light at a specific frequency of interest. Although you don't know *exactly* the operating freq, you know if your in the extra portion or the novice portion of a band, and that's all you really need to know.

Other freatures are 10 Hz, 100 Hz, 250 Hz and 5 Khz tuning rates, knob tuned with small mechanical encoder, 30 steps per rev.

RIT (tuning rate automaticly set to 25 Hz, original operating freq and tuning rate restored when disabled, RIT "on" indicated by yellow led)

A/B freq memo available by adding a N.O. push button (not included)

Built in 10-40 WPM keyer, 2 wpm steps, Iamblic "A" mode, with side tone, can drive piezo speaker directly.

Tx offset, programmable

Up to three tuning ranges programable, but using this feature disables the keyer function and requires adding a band selector switch.

100 Khz to 9.5 Mhz operating range, 1-2V p-p output into 300 ohm load, output level dependant on freq. Spurs -50dBc or better. Requires freq counter for set up (programming) 8-14 V DC @ 30 ma.

Comes assembled and tested, as it uses 31 smt parts.
Price is \$55.00 + \$5.00 S+H priority mail

Steven Weber, KD1JV
633 Champlain St
Berlin, NH 03570

72,
Steve, KD1JV in the white Mountains of New Hampshire

"melt solder"

Date: Sat, 26 Jun 1999 12:25:06 -0400
From: "John J. McDonough" <jjmcd@tm.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [43585] Sorry: Was: Re: Fractal antennas?
Message-ID: <000c01bebff0\$77125920\$010044c0@conor-mac-nessa>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

For those of you who are scratching your head over my previous note wondering who Chip is ... Chip, NI1R, is the Nathan Cohen mentioned in the Scientific American article.

Another thing to watch out for ... the article mentioned that Chip proved mathematically that to be effective at all frequencies, it is necessary for an antenna to be fractal. It DOES NOT necessarily follow that a fractal antenna is good at all frequencies.

I am far from an expert, but among those designs I've seen, all are effective at only one band, although they may be slightly more broadbanded than a dipole.

A *LOT* of folks, including N7ZWY on this reflector, have characterized Chip as obnoxious. I've never met him in person so he may very well be. But he was extremely helpful to me in getting started in antenna modeling and very patient with my ignorance, so I can't agree with that observation.

72/73 de WB8RCR <http://www.qsl.net/wb8rcr/>
didileydadidah QRP-L #1446 Code Warriors #35

Date: Sat, 26 Jun 1999 09:54:14 -0700
From: Bob Hightower <ki7mn@extremezone.com>
To: qrp-l@lehigh.edu
Subject: [43586] 2N2/40 T-shirts
Message-ID: <199906261647.JAA19091@enterprise.extremezone.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

T-shirts with the 2N2/40 board layout are available from the Az ScQRPions. They are white, 100% cotton, in sizes Small to X-Large for a measly \$12.00 a copy. Proceeds to the Ft Tuthill Symposium. XXL sizes available for \$14.00 each. Super large sizes available if you send me a note with the size desired :^).

The front of the shirt says "2N2/40 QRP Transceiver"

"Manhattan Style"

(board layout)

"Designed by Jim Kortge K8IQY"

They are pretty nice, and a picture can be seen at
<http://www.extremezone.com/~ki7mn/2n2tee.htm>.

Send check payable to me, Bob Hightower, to 1905 N. Pennington Drive,
Chandler, AZ 85224-2632. Please include address label, if available. Shirts
will be sent first class mail.

72,73

Bob Hightower KI7MN

<http://www.extremezone.com/~ki7mn>

Date: Sat, 26 Jun 1999 15:37:26 -0400
From: "William Penhallegon" <w4stx@gte.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [43587] FS OHR-400
Message-ID: <004801bec00b\$72e2ec00\$6cc02599@pavilion>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

FS - Like new OHR-400 with keyer. Aligned by Oak Hills Research.
\$290 includes priority shipping.
Bill Penhallegon W4STX
Clearwater, FL

Date: Sat, 26 Jun 1999 16:02:25 -0400
From: Mike Czuhajewski <wa8mcq@erols.com>
To: QRP forum <qrp-l@lehigh.edu>
Cc: bowerm@ix.netcom.com
Subject: [43588] HW-8 lights
Message-ID: <377531D1.2970@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

N4NMR said this recently, about the HW-8--

"2) The light inside the rig seems to have gone dead. is this easy to replace? Neither the strength meter nor the dial light up but I was able to listen to the bands."

To paraphrase a slogan of a popular soft drink a while back, "Lights? Never had 'em, never will!" If it's an unmodified HW-8, it's not supposed to light up.

The HW-8 never did have lights of any sort inside, but adding a light behind the dial and/or meter was a frequent modification. If your HW-8 really has a light and it's dead, no one can say if it's a simple job to replace it, or even what sort of bulb was used, since everyone who made the modification probably just used whatever 12 volt lamp was available and installed it any way they wanted :-) There is no standardization.

Then again, you could go ahead and replace such a bulb any way you wanted without worrying about using "non-standard" parts and methods and decreasing the resale value, since there was no standard :-)

--

73 and Queue Our Pea de WA8MCQ wa8mcq@erols.com

Date: Sat, 26 Jun 1999 16:54:41 -0400
From: "George Goodroe" <goodroe@worldnet.att.net>
To: "Qrp-L@Lehigh.Edu (E-mail)" <qrp-l@Lehigh.EDU>
Subject: [43589] WELLER IRON
Message-ID: <000301bec016\$200710a0\$b0e8fea9@ggoodroe>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hello All,

I am going to buy the Weller Iron from Tech America and wonder which tips would be the best to buy with it.

I am going to be building kits like the WM-2 Wattmeter and the Wilderness NC 40A...

They are selling screwdriver tips with widths of .06, .09, .12, .18, .03

Which should I buy?

Thanks and 73 de KF4CPJ
George Goodroe, QRP-L #1943
St. Petersburg, Florida USA
80 Meter high noise capital of the USA <grin>
<http://home.att.net/~goodroe>
<http://www.qsl.net/kf4cpj>

Date: Sat, 26 Jun 1999 22:09:53 +0100
From: "Graham Firth" <Graham.Firth@BTinternet.com>
To: "GQRP list" <ggrp@onelist.com>
Cc: "qrp-l" <qrp-l@lehigh.edu>
Subject: [43590] Summer SPRAT
Message-ID: <014801bec01d\$4515e540\$02010080@graham>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi

The Summer SPRAT will be in the post soon.
Please give it a few weeks to arrive at all corners of the planet!

Contents:

Rochdale Convention
160M AM Transmitter
Penning Crystals
VXO For 136kHz
Finishing front panels
Stereo filter
CMOS Switched Superhet

OK2PZL Transceiver Circuit (again)
Parking Lot Vertical
GQ-PLUS Part 2
Hamcalc
CMOS Mixer
Getting on the G-QRP List
One Watt Week
A 1kHz Passive Filter
CELTICON 2000

And all the regular features.....

Not a member?
Well then you won't receive a copy! - sorry!

72/3
Graham
G3MFJ/W3MFJ

Date: Sat, 26 Jun 1999 15:05:20 -0700
From: Rod Davis <rdavis@abac.com>
To: QRP L <qrp-l@lehigh.EDU>
Subject: [43591] kit comparisons article?
Message-ID: <37754EA0.362BE32A@abac.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi All,

Not to long ago I saw a good article comparing about the top 5 or 6 QRP kits.

I'm now ready to get one and cant find the article.

Any leads on where that article may be?

Thanks,

Rod KM6SN

Date: Sat, 26 Jun 1999 17:04:24 -0500
From: randy cornelison <randyc@tsixroads.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [43592] Field Day Exchange
Message-ID: <37754E68.8779D4CA@tsixroads.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Just got ohr400 on air, thought I would try some FD contacts. What would be the exchange that I would give being at home...
Thanks Randy K5UF

Date: Sat, 26 Jun 1999 09:50:33 -0700
From: dave_epps@juno.com
To: kd1jv@moose.ncia.net
Cc: qrp-l@Lehigh.EDU
Subject: [43593] Re: digital vfos
Message-ID: <19990626.150702.-251461.0.Dave_epps@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I have one of Steven's Mini DDS vfo's and it's a real winner. (imho).
dave ab5pc morro bay, ca

Get the Internet just the way you want it.
Free software, free e-mail, and free Internet access for a month!
Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

Date: Sat, 26 Jun 1999 18:35:25 -0400
From: "Alex Mendelsohn" <ai2q@ispchannel.com>
To: <w4qo@amsat.org>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [43594] RE: Kite Plans at Atlanticon?
Message-ID: <000401bec024\$2f20ffc0\$5c32a7d0@mendelsohn.ispchannel.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

KQ2G and the gang had the same experience at N2RI/QRP FD years ago when we used a Gibson Girl ballon. A big 2.5 mHy choke to ground did the trick, but not before we drew one-inch sparks!

Vy 73, AI2Q, Alex in Kennebunk, Maine

> -----Original Message-----
> From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of
> Jim Stafford, W4Q0
> Sent: Friday, June 25, 1999 11:53 AM
> To: Low Power Amateur Radio Discussion
> Subject: Re: Kite Plans at Atlanticon?
>
>
> Darn, I wanted the KITE plans. Now there's a design contest we have yet
>
> to exploit!
>
> We did however fly a kite antenna two years ago at FDI and zapped the
> front end of my INDEX LABS from static charge build up - oh, for a grid
> leak when you need it!!
>
> W4Q0 - Late Proud Member of the Ben Franklin Society!
>
> --
> Jim Stafford, W4Q0 770-993-9500 VP - QRP/ARCI #6515
> +++The THRILL is back - QRP - what ham radio is all about!
> +++<http://www.qrparci.org>
>
>
>
>
>

Date: Sat, 26 Jun 1999 15:42:18 -0700
From: Jim <w7ls@blarg.net>
To: dave_epps@juno.com, qrp-1@lehigh.edu
Subject: [43595] Re: digital vfos
Message-ID: <37755749.327BB3E5@blarg.net>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I heartilly agree. It fires right up and does exactly what it is supposed to. Jim W7LS

dave_epps@juno.com wrote:

> I have one of Steven's Mini DDS vfo's and it's a real winner. (imho).
> dave ab5pc morro bay, ca
> -----
> Get the Internet just the way you want it.
> Free software, free e-mail, and free Internet access for a month!
> Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

End of QRP-L Digest 1500

